NORTH CAROLINA AIR NATIONAL GUARD
AGR VACANCY ANNOUNCEMENT

POSITION AND DUTY MOS:	RANK/GRADE:		ANNOUNCEMENT #:
Training Instructor D2154000 3E4X1, 81T0 PSN #: 0083881134	NTE MSgt/E-7	☐ NATIONWIDE ☒ NCANG MEMBERS ONLY ☐ ON BOARD AGR ONLY	ANG-AGR 2015-05

UNIT, LOCATION, POC: **OPENS: 12 March 2015 CLOSES: 10 April 2015**
145 Civil Engineer Squadron, Charlotte NC
POC: Lt Col Milton Addison milton.addison@ang.af.mil
704.391.4340 DSN: 231.4340
Duty Location: Regional Training Site, Stanly County

PRINCIPAL DUTIES AND RESPONSIBILITIES: Instructs and trains Civil Engineers specifically the Water and Fuel Systems Maintenance (WFSM), Air Force Specialty Code (AFSC 3E4X1 at the RTS/REOTS locations. Training: Plans, develops and validates training plans. Determines and selects instructional design, methods and media. Develops training materials to support training objectives for the WFSM career field for federal and state missions. Prepares required training and statistical data to gauge training comprehension. Monitors progress and counsels students on performance.Instruction includes but is not limited to specialized technical skills to direct and perform Water and Fuel Systems installation, repair and maintenance. Individual is given the freedom to plan and execute assignments and independently coordinates lesson plans with other instructors and groups at the training locations. Requires creativity in devising ways to accomplish all training requirements as tasked by the Combatant Commanders (COCOMS) and the 3E4X1 Career Field Education and Training plan (CFETP). Coordinates with AF/A7, Air Force Civil Engineer Support Agency (AFCESA), NGB/A7X, Unit level Commanders, co-workers and students on a daily basis. This includes high-level customers,political liaisons, contractors and or suppliers, military and civilian leaders all over the world. Instructs, and evaluates students on the installation, repair and maintenance of pipe systems, plumbing fixtures, and equipment. Installs, tests, troubleshoots, and repairs pipe systems designed to conduct the flow of hot and cold water along with interior sewage. Installs and maintains pipe systems located above, under or on the ground; in, on, and between walls, floors, and ceilings; and, at fixtures, appliances, potable and non-potable water, interior sewage, and pneumatic air and gas systems. Connects pipe sections using fittings by soldering, brazing, or packing oakum with hot lead. Instructs and evaluates students on the installation of plumbing fixtures such as sinks,toilets, showers, water heaters, sterilizers and laundry machinery. Guides students in the installation of devices such as traps, vents, drains, siphons, pumps integral to plumbing systems, meters, fittings, couplings, shock arrestors, and other fittings to pipe sections for all water and fuel systems. Provides instruction to ensure competence in determining the condition of connections, and how to proceed in making repairs or corrections. Leads students as they learn and adjust connections and piping circuits to correct such conditions as air locks, water hammers, expansion, contraction and friction. Prepares performance evaluations on each student in accordance with the Plan of Instruction (POI). Upon completion of training, certifies competence level and ensures completion of required documentation. Provides instruction and training on the following; Installation, inspection, maintenance, and repair of water/waste water, and gas distribution systems and components; the Inspection, recurring maintenance, and seasonal overhaul of these systems. Ensures competence of students so that they are able to interpret drawings and schematics to analyze and isolate system malfunctions. Instructs students how to modify equipment for specific missions or to increase efficiency, how to locate and determines quality and quantity of water sources and perform water analysis for chemical and physical characteristics to determine water purification treatment methods. Performs, instructs, and evaluates students on the setup, operation and maintenance of the Base Expeditionary Airfield Resources (BEAR) to include the reverse osmosis water purification unit (ROWPU), field deployable latrine, field deployable shower/shave, BEAR water distribution system, BEAR waste water system, 400 GPM pumps, water storage bladders to include manifold systems, waste storage bladders, and M-80 boiler. Instructs in the testing of systems operation and purity, and detects component malfunctions using test equipment. Guides students as they remove, repair, and replace system components or component parts. Checks and trains students in how to check installed safety devices for operation, and performs inspections to include purity control measures as required by technical orders, manuals and manufacturers data. Develops lesson plans so as to instruct and evaluate

students on the use of the Petroleum Oil and Lubricants (POL) Rapid Utility Repair Kit (RURK). Instructs and evaluates students on the installation and repair of all components to include field expedient requirements to ensure proper fuel flow in all contingency operations. Performs, instructs and evaluates students on the inspection and testing of fuel receiving, storage, and distribution facilities and how to perform preventive maintenance on fuel systems and components. Guides instruction in the proper methods to Inspect fuel tanks and vents for proper ventilation; check interior and exterior of tanks for corrosion, leakage, contamination, and sludge and correct operation of roof sumps, roof seals, liquid level gauges, product recovery systems, etc., and how to inspect gauging equipment for calibration. Instructs and verifies the students understand how to perform corrosion control on exposed piping, performing ground resistance tests and how to pressure check system to identify leaks, checking pumps for unusual noise, vibration, and proper operation, performing hydrostatic tests on hoses, the testing and calibration of fuel flow meters, and the checking of manual and diaphragm valves for proper operation. Teaches and conducts diagnostic checks on sensors, alarm components, and emergency shutoffs, how to Inspect tank-cleaning equipment such as portable pumps, respirators, air lines, harnesses, hoses, and compressors. Ensures the students understand how to inspect the entire fuel distribution system and its components to detect possible explosive and toxic hazards and system deficiencies and how to conduct follow-up inspections of contractor and in-house maintenance and or repairs as one maintains records of inspections, maintenance, and repairs, as required. Teaches students to perform all phases of liquid fuel system and component maintenance including preventive maintenance, troubleshooting, repair, and modification. How to remove, install, repair, and troubleshoot the component parts of fuel systems to correct malfunctions of turbine, centrifugal, and rotary pumps, manually operated plug/ball valves, hydraulically-operated diaphragm-type valves, pilot control systems, tank gauges and vents, filter separators, fuel flow meters, hydrant outlets, differential pressure gauges, and truck loading and fill connections. Directs instruction so as to ensure students understand how to perform modifications of systems in accordance with applicable manuals, technical publications, and manufacturer's specifications, lubricate valves and pumps, replaces gaskets and seals, correct pumping equipment misalignment, cleans strainers and filters, services filter separators, and checks meters for correct delivery and calibration. Understand how to troubleshoot, overhaul, remove, and replace high/low level controls, liquid level gauges, automatic fueling/defueling valves, pressure regulating valves, water drain valves, excess flow valves, pressure/vacuum vents, and roof seals and sumps. How to properly clean and purge equipment, disassemble units and examine component parts for evidence of scratches, wear, cracks, pits, or breaks, how to troubleshoot, repair, and test equipment installed in vehicle gas stations and truck loading fill-stands, performs liquid calibration of fuel storage tanks and flow meters, measures, cuts, threads, joins, and fits piping as required to perform system modification or to repair/replace system components. Instructs classes in proper methods to troubleshoot and repairs problems in the electrical components of liquid fuel distribution systems and how to perform electrical inspections of electro-mechanical components. Teaches how to Use multi-meters to check system continuity and identify minor system problems or replace burned out fuses. Teaches and guides classes in their diagnoses, repair, and adjustment of electrical components such as electrical controls, motors, and other devices using electrical measuring equipment (e.g., voltmeters, ammeters, and ohmmeters). Lessons on how to examine motors, diagnose defects, and make on-site repairs when possible, disconnect motors requiring major repair and transporting to shop, how to use ohmmeter or megger instruments to test static grounds throughout systems, adjust, align and calibrate gauges and meters to ensure maximum operating efficiency. Installs and performs pressure tests for operation of new, repaired, and modified components, valves, and controls. Performs and teaches the inspection, maintenance, and repairs on all controls, switches, connecting and grounding cables. Instructs and participates in the cleaning of interior surfaces of bulk storage tanks, above and below ground, by entering tanks; cleaning interior surface and testing seams and other areas suspected of leakage. Performing corrosion control by removing corrosion and the repainting of surface, removes and disposes of sludge. Instructs in the proper procedures and following safety precautions in tank entries, ventilation tasks, and in the disposing of sludge. How to utilize safety practices and procedures following established safety rules and regulations and maintain a safe and clean work environment. Uses and assures the proper fit of required safety equipment (i.e., foot, eye, breathing, and ear protective gear) and clothing (i.e., cotton). Polices grounds, buildings, and pits to maintain area in accordance with fire prevention and security directives. Performs maintenance on all instructional equipment to ensure all training aides are available for training venue. Coordinates, prepares, and participates in readiness evaluations, Unit Compliance Inspections (UCI), Operational Readiness Inspections (ORI), and mobility and command support exercises for the RTS and visiting Civil Engineering units. Performs other duties as assigned.

QUALIFICATIONS: Must meet the physical qualifications outlined in AFI 48-123, as appropriate. Must comply with the military duty eligibility requirements IAW ANGI 36-101. Knowledge is mandatory of: contingency/peacetime operations in hydraulic, electrical, mechanical theories, and principles that apply to all utility and liquid fuel systems. Has knowledge in, characteristics, physiological effects, and hazards of liquid fuel products. To include types, sizes, and uses of plumbing materials and components; mathematics; reading and interpreting drawings and specifications, military and commercial publications, and environmental regulations; maintenance of water distribution, wastewater collection, and natural gas distribution systems and corrosion prevention. Additionally, has knowledge of Prime BEEF program its role in supporting world wide contingency operations.

NOTE: Military Grade Inversion: The military structure is preeminent over the full-time structure and military grade inversion within the full-time work force is not permitted. The military grade of the supervisor must equal or exceed the military grade of personnel supervised.

Member must remain in the position to which initially assigned for a minimum of 24 months.

Applicants for E-8 positions must have the ability to complete Senior Noncommissioned Officer Academy within 36 months of assignment IAW para 2.23.1 of ANGI 36-2101.

Application Packages must include the following:

(1) NGB Form 34-1 (dated 11 Nov 2013)

(2) A copy of your current (last 12 months) "passing" Physical Training Assessment Sheet. Must have a passing PT Assessment before starting tour.

(3) vMPF RIP. Must be no more than 60 days old. Data Verification Brief (DVB) briefs or RIPs generated directly from MILPDS will not be accepted. All information to qualify you for an AGR Tour must be present within your RIP. If there is a system limitation causing your record to be incorrect, you must include the official supporting source document with your package. Pen/ink corrections on RIP could disqualify package

(4) ASVAB Scores and PULHES: AF Form 422 (Obtain from 145 MDG). Must comply with ASVAB and PULHES criteria as listed in AFECD.

Individuals selected for AGR tours must meet the Preventative Health Assessment (PHA)/physical qualifications outlined in AFI 48-123, *Medical Examination and Standards.* They must also be current in all Individual Medical Readiness (IMR) requirements to include immunizations. RCPHA/PHA and dental must be conducted not more than 12 months prior to entry on AGR duty and an HIV test must be completed not more than six months prior to the start date of the AGR tour. Individuals transferring from Title 10 (Regular Air Force or Reserve Component Title 10 Statutory Tour) are not required to have a new physical unless the previous physical is over 12 months old at time of entry into AGR status.

Individuals on a DD Form 469, *Duty Limiting Condition Report* at the time of AGR physical package evaluation will not be deemed medically qualified. Individuals may apply for AGR tours as long as meet the aforementioned requirement and subsequently are medically cleared off any DLC/medical profile prior to starting a new AGR tour. An initial AGR order will not be published prior to ensuring the selected applicant is off any duty limitations before starting their AGR tour.

Airmen determined physically qualified for continued military service IAW AFI 48-123*, Medical Examinations and Standards*, by the State Air Surgeon (or designated representative) or Military Entrance Processing Station (MEPS) may enter on AGR duty immediately.

(5) Dental Classification: 1 or 2 (Obtain current SF 603A from 145 MDG)

(6) Must have adjudicated Security Clearance before starting tour.

(7) Scan all documents and submit as one attachment.

PLEASE READ DISCLAIMER: Do not submit other documents unless specifically asked for in the announcement.

You, the applicant, are responsible for the completion and turn-in of your application, all contents, and attachments. Incomplete applications will be considered "Not Qualified" because of lack of information. HRO is not responsible for incomplete packets. Applications and associated documents will not be returned nor considered for future vacancy announcements. Do not submit original documents

EMAIL APPLICATIONS TO: 145fss.fulltimejobapplications@ang.af.mil Applications must be received not later than 1600 hours (EST) on the closing date of the announcement. Applications received after the closing date/time will not be accepted. Applications must not be mailed using government-supplied envelopes or postage.

THE NORTH CAROLINA NATIONAL GUARD IS AN EQUAL OPPORTUNITY EMPLOYER

Eligible applicants will be considered without regard to race, sex, religion, national origin, or political affiliation.